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CLAIMS

- A billiard cue comprising a shaft having a tip end and a butt end, wherein the shaft has a nonlinear tapered section with reduced diameter compared to a
 linear tapering at the tip end.
 - 2. The billiard cue as in claim 1, wherein said non-linear tapered section with reduced diameter extends until about 14 inches from the tip end.
- 3. The billiard cue as in claim 1, wherein the shaft further has a non-linear tapered section with increased diameter from about 14 inches from the tip end to about 29 inches from the tip end.
- 4. The billiard cue as in claim 1, wherein the shaft shows an increased flexibility at the tip end compared to a linearly tapered shaft.
- 5. A billiard cue comprising a shaft having a tip end and a butt end, wherein the diameter of the shaft from the tip end is in a Boltzmann function relation to the distance from the tip end curve until at about half of the shaft.
 - 6. A process for the manufacture of a shaft for a low-deflection billiard cue, comprising the steps of:
 - Providing an elongated suitable material such as ash or maple wood,
- 25 Reduce said material to obtain a tapered shaft comprising a tip end and a butt end, wherein said tapered shaft has a non-linear tapered section with reduced diameter compared to a linear tapering at the tip end.
- 7. The process of claim 1, wherein the step of reducing is executed with a technique selected from the group consisting of sanding, laser and manual or computer-directed lathe turning.